

AN - 1984-191061 [31]

**A - [001] 014 04- 041 046 047 06- 074 076 081 082 09- 139 141 230 231 24-
240 244 245 252 255 259 516 52& 523 532 537 540 551 56& 567 57& 572
62& 645 688**

AP - JP19820213969 19821208

CPY - MITK

DC - A96 D22 F07 P21

DR - 1759-U

FS - CPI;GMPi

IC - A41B13/02 ; G01N33/48

**KS - 0044 0231 0239 0493 0535 1276 1283 1985 1989 2001 2007 2575 2595 2634
2847 3004 3198 3255 3287**

MC - A12-V03A D09-C03 F04-E04

PA - (MITK) MITSUI TOATSU CHEM INC

PN - JP59106501 A 19840620 DW198431 004pp

PR - JP19820213969 19821208

XA - C1984-080217

XIC - A41B-013/02 ; G01N-033/48

XP - N1984-142757

AB - J59106501 Microcapsules with a skin film which crumbles when wet liberating fragrant content to colour adjacent materials, or to develop a colour or cause discolouration by causing a reaction, are interposed between a water impermeable transparent or translucent membrane and a urine absorbing material of a diaper. Suitable material for the skin film of the microcapsule are: (a) materials soluble in water or becoming tearable by water, such as gelatin, gum arabic, carboxymethyl cellulose, polyvinyl alcohol, etc., (b) materials soluble in acidic or alkaline aq. soln. or becoming tearable by such soln. such as amino resin, polyamide, gelatin, sodium alginate, methyl acrylate, etc., (c) materials which become transparent or translucent by wetting by the water, such as gum arabic, starch derivs. talc, etc.

- Suitable materials to be contained in the microcapsule: (d) colourants such as dyes, pigments, pH indicators, etc., (e) materials to be coloured or discoloured by the water such as leuco cpds. of vat dyes, anhydrous CuSO₄, etc., (f) others such as perfumes, colour developing materials.**

- The microcapsules are inserted to between a cover material (nylon, polyethylene, etc.) and a urine absorbing material.**

- USE/ADVANTAGE - Due to the improvement of water absorbing and retaining capacity of the urine absorbing material for recent diapers, babies will not cry because they feel no discomfort, therefore it is not readily possible to detect whether a baby has excreted or not unless by taking off the diaper.(0/0)**

**IW - WET INDICATE DIAPER CONTAIN MICROCAPSULE CONTAIN DYE FRAGRANCE RELEASE
WET WATER ABSORB MATERIAL IMPERMEABLE MEMBRANE**

**IKW - WET INDICATE DIAPER CONTAIN MICROCAPSULE CONTAIN DYE FRAGRANCE RELEASE
WET WATER ABSORB MATERIAL IMPERMEABLE MEMBRANE**

NC - 001

OPD - 1982-12-08

ORD - 1984-06-20

PAW - (MITK) MITSUI TOATSU CHEM INC

TI - Wetness indicating diaper - contains microcapsules contg. dye and/or fragrance that are released when wetted between water absorbing material and impermeable membrane